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U.S. PATENT DOCUMENTS

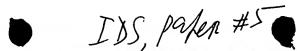
			U.S. I ATENT DOCUMENTS			
Examiner	Patent number	Date	Inventor	Class	Sub	Filing date
Initial		1			class	if appropriate
VA	5,171,660	12/15/92	Carpenter et al.			
VA [*]	5,780,295	7/14/98	Livesey et al.			
VA	5,817,453	10/6/98	Brinster			
VA	5,945,577	8/31/99	Stice et al.	The second		20,000
VA	6,011,197	1/4/2000	Streichenko et al.			
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FOREIGN PATENT DOCUMENTS Document Translation Date Country number No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Steponkus, P.L. et al., Cryopreservation of Drosophila Melangaster Embryos, Native, 10 May 1990, Vol. 45, pages 170-172, especially materials and methods sections. Martino, A. et al., Development into Blastocysts of Bovine Oocytes Cryopreserved By Ultra-Rapid Cooling, Biology of Reproduction, May 1996, Vol. 54, pages 1059-1069, especially methods section. Mazur, P. et al., Contributions of Cooling and Warming Rate and Developmental Stage to the Survival of Drosphila Embryos cooled to 205C, Cryobiology, February 1993, Vol. 3, No. 1, pages 45-73, summarized in abstract. International Search Report, August 15, 2001.

Examiner:	V.	AL	nmar	Date Considered:	6-20-02

EXAM!NER: Initial if citation considered, whether or not citation is in conformance with MFEP \$609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



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	OTHE	R DOCUMENT	S (Including	Author, Title, Date, Pertin	ent Pag	es, Etc.) 🕶	・三皿	
\ //\ .	J. Carroll, et a	al., Increase In	Digyny Expla	ins Polyploidy After In-Vit	ro Fertil	ization Of F	zen-Bawed	
VA				And Fertility, Vol. 85, 198			3 9 11 1	
/\ `				f Dimethylsulphoxide On				
				ciated With A Reduction In			onical Granules	
				rtility, Vol. 89, 1990, pp. 2 Embryos In KSOM With A			smutase And	
				nt 0 ₂ ¹ , Biology Of Reprod				
				ine Oocytes On Their Dev				
•				1996, pp. 503-512.	•	·		
				ng and Rewarming On Th				
				ogy Of Reproduction, Vol.				
				Cryoprotectants And Car enology, Vol. 42, 1994, pp			ezing Of Matured	
 				eriology, vol. 42, 1994, pr			ruration Stanes	
	N .	•	•	•				
	Followed By In Vitro Maturation And Fertilization, Vol. 37 No.2, February 1992, pp. 351-361. W.F. Rall, et al., High In Vitro And In Vivo Survival Of Day 3 Mouse Embryos Vitrified Or Frozen In A Non-							
	Toxic Solution Of Glycerol And Albumin, Journal Of Reproduction And Fertility, Vol. 101, 1994, pp. 681-							
	688.							
	/		•	nental Capacity Of Frozen		-	ollowing In Vitro	
				ogy, Vol. 35, 1991, pp. 122				
		, Developmenta gy, Vol. 40, 199		f Bovine Oocytes Frozen I 17	וווט וו	ent Cryopro	iccianis,	
13/1				of Bovine Oocytes Cryo	oreserv	ed By Ultra-	Rapid Cooling	
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	Document	Date	Country		Class	S _b =	i anslation
	number			_		ciass	Yes No
				7			
Embryos, Molecular Reproduction And Development, Vol. 51, 1998, pp 53-58. Kazumi(Ito) et al., Effects of Timing Of Oocyte Cryopreservation On In Vitro Development Of Nuclear-Transferred Bovine Zygotes, Molecular Reproduction And Development, Vol. 54, 1999, pp. 81-85. Peter Freistedt, et al., Energy Status Of Nonmatured And In Vitro-Matured Domestic Cat Oocytes And Of Different Stages Of In Vitro-Produced Embryos: Enzymatic Removal Of The Zona Pellucida Increases Adenoisine Triphosphate Content And Total Cell Number Of Blastocysts, Biology Of Reproduction, Vol. 65, 2001, pp. 793-798.							
				First Cleavage Post-Insen ar Reproduction And Deve			
• 🕇				oment And Protein patters			
				uction And Development, /ivo survivial Of Frozen-T			
	7 Transfer, And 281-286.	d Parthenog	enetic Activati	on, Molecular Reproduction	on And De	velopment,	Vol. 51, 1998, pp. i
	/ / /	•		d After Direct Transfer Of		-	yos Using Ethylene
 				lone, Cryobiology, Vol 33 ure Bovine Oocytes By Vi			ryobiology, Vol. 37,
	1998, pp. 77	-85.					
				opment Of Frozen-Thawe obiology, Vol. 33, 1996, p			ovine oocytes By A
100	D O V			erived Bovine Zygotes Cn			rops.
VA	Theriogenolo	gy, Vol. 51,	1999, 🕶 🕬	Abstracto, P. 178			· · · · · · · · · · · · · · · · · · ·
M	K. Papis, et a			e-Equilibration On Surviva			ates Of Bovine In

13

Date Considered: 6-20-02 Examiner: EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

M. Lane, et al., Live Births Following Vitrification Of namster Embryos Using A Novel Containeriess Technique, Theriogenology, Vol. 51, 1999, Marketing P. 16-7

J.T. Peura, et al., Vitrification Of Bovine Cytoplasts For Nuclear Transfer, Theriogenology, Vol. 51, 1999, p. 211(abstract).

Examiner: V. Africanova

Date Considered:

6-20-02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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